

consists of copper which is cast around this tube, the cooling panel being provided, on a side remote from the connection ends, with a multiplicity of horizontal ribs.

2. (Amended) Cooling panel according to Claim 1, wherein the material of the continuous tube contains between 65 and 70% by weight Ni, approx. 3% Fe and  $\leq 1\%$  of one or more of the elements Mn, Si and C.

3. (Amended) Cooling panel according to Claim 2, wherein the material of the continuous tube consists of Monel, with a composition of approx. 28% Cu, 68% Ni, 3% Fe, 1% Mn and low Si and/or C contents.

4. (Amended) Cooling panel according to Claim 1, wherein the ribs have a length, in the width direction of the cooling panel, which is smaller than the width of the cooling panel.

5. (Amended) Cooling panel according to Claim 4, wherein the ribs have a length in the width direction of the cooling panel of  $\leq 50\%$  of the width of the panel.

6. (Amended) Cooling panel according to Claim 1, wherein the ribs are provided with supporting backs.

7. (Amended) Cooling panel according to Claim 6, wherein each of the ribs with a supporting back is T-shaped in cross section, parallel to the plane of the cooling panel.

8. (Amended) Cooling panel according to Claim 6, wherein each of the ribs with supporting backs are in the shape of a + in cross section, parallel to the plane of the cooling panel.

9. (Amended) Cooling panel according to Claim 6, wherein the ribs are provided with supporting backs on either side in the vicinity of their ends.

10. (Amended) Cooling panel according to Claim 1, wherein the wall is provided, on the side of the connection ends, on either side of each duct, with undulating recesses in which reinforcing walls which fill up these recesses are distributed over the height of the cooling panel. - NAB ?

11. (Amended) Cooling panel according to Claim 1, wherein the wall, on the side remote from the connection ends, is provided, on either side of each duct, with undulating recesses.

*Cont*  
*A2* 12. (Amended) Cooling panel according to Claim 1, wherein the ribs thicken towards their free ends remote from the main body of the cooling panel.

13. (Amended) Shaft furnace provided with a jacket which on the inside is at least partially provided with cooling panels according Claim 1.

14. (Amended) Process for producing a cooling panel according to Claim 2, wherein the continuous tube (or tubes) is firstly given its final shape, after which the copper for the cooling-panel body to be formed is cast as cast material around the tube at a temperature which is so close to the melting point of material of the tube that, after the cast material has cooled, the cast material is attached to the material of the tube.

Please add the following new claims.

*h*  
*A2* 15. Cooling panel according to Claim 2, wherein the material of the continuous tube consists of Monel.

16. Cooling panel according to Claim 4, wherein the ribs have a length in the width direction of the cooling panel of  $\leq 25\%$  of the width of the panel.